

Amendment To Claims

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1. (Currently Amended) In a computing device having an operating system module to interface with a RAID device controller that comprises an I/O processor, a method of indicating occurrence of an event to a management application, comprising:
  - registering the management application with an event application programming interface;
  - detecting occurrence of an event of the I/O processor with a RAID monitor service operating above the operating system module that interfaces with the RAID device controller; and
  - notifying the management application program of the event via the event application programming interface.
2. (Original) The method of claim 1, further comprising updating the event application programming interface with the RAID monitor service upon occurrence of the event.
3. (Original) The method of claim 1, wherein registering the management application includes identifying a storage medium associated with the event.
4. (Original) The method of claim 1, wherein registering the management application includes identifying the type of event.

5. (Original) The method of claim 1, wherein registering the management application includes providing the event application programming interface with a callback function.

6. (Original) The method of claim 5, wherein the event application programming interface uses the callback function to notify the management application of the occurrence of the event.

7. (Original) The method of claim 1, wherein registering the management application includes creating an interprocess communication between the RAID monitor service and the management application.

8. (Original) The method of claim 1, further comprising the step of unregistering the management application with the event application programming interface upon notification of the event.

9. (Original) The method of claim 1, wherein the event application programming interface returns a callback function upon notification of the event.

10. (Currently Amended) In a computing device having an operating system module to interface with a device, a method for notifying an application of the occurrence of a hardware event comprising:

registering the application with a programming interface;

detecting occurrence of the hardware event with a monitor service that operates above the operating system module and that is separate from the programming interface; and

upon detecting occurrence of the hardware event, notifying the application of the hardware event via the programming interface,

wherein registering the application includes storing data identifying an input/output processor that monitors the device.

✓ 11. (Cancelled)

✓ 12. (Cancelled)

13. (Original) The method of claim 11, wherein storing the data includes storing data identifying the hardware event that the programming interface notifies the application of once the hardware event has occurred.

14. (Original) The method of claim 11, wherein storing the data includes storing a hardware identification value that identifies a storage medium associated with the event.

15. (Original) The method of claim 10, further comprising notifying the programming interface of the occurrence of the hardware event with a RAID monitor service.

16. (Original) The method of claim 10, wherein notifying the application includes providing a callback function.

17. (Currently Amended) An article comprising:

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a machine readable storage medium having stored thereon instructions capable of being executed by a data processing platform, said instructions being adapted to register a management application with a programming interface so that the programming interface is capable of notifying the management application of an event detected by a RAID monitor service that operates above an operating system module that interfaces for interfacing with an I/O processor the of a RAID device controller.

18. (Original) The machine readable storage medium of claim 17, wherein said instructions are further adapted to unregister the management application.

19. (Original) The machine readable storage medium of claim 17, wherein said instructions are further adapted to notify the management application of a hardware event.

20. (Original) The machine readable storage medium of claim 19, wherein the hardware event is selected from the group consisting of a disk drive failure, disk drive initialization, array migration, and data recovery.

21. (Original) The machine readable storage medium of claim 17, wherein said instructions are further adapted to register a processor identification value.

22. (Currently Amended) An article comprising:

a processor;

a medium for storing instructions;

a medium for storing data; and

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a module to interface with an I/O processor that monitors the medium for storing data;

wherein instructions on the medium for storing instructions define a monitor service adapted to cause the processor to detect via the module the occurrence of an event with the medium for storing data and to indicate the occurrence of the event to a management application.

23. (Original) The article of claim 22, wherein the management application is selected from the group consisting of a desktop management program, a RAID system management application, and a RAID monitor application.

24. (Currently Amended) The article of claim 22, wherein the device medium for storing data comprises a RAID device and the monitor service comprises a RAID monitor service.

25. (Currently Amended) The article of claim 24, further comprising an intelligent input/output controller to interface with the RAID device, wherein the intelligent input/output controller comprises the I/O processor.

26. (Currently Amended) An apparatus comprising:

a processor;

a RAID controller comprising an I/O processor;

an operating system module to interface with a RAID device via the I/O processor of the RAID controller;  
a RAID monitor service to detect events of the RAID device via the operating system module;  
an event programming interface;  
a management application, wherein the event programming interface is adapted to notify the management application of an event detected by the RAID monitor service.

27. (Original) The apparatus of claim 26, further comprising a storage medium, wherein the storage medium comprises instructions that cause the processor to register the management application with the event programming interface.

28. (Original) The apparatus of claim 27, wherein the storage medium further comprises instructions that cause the processor to provide the function of the event programming interface.